

Applicants: Qi Zhang et al.  
Serial Number: 10/743,307

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Assignee: Intel Corporation  
Attorney Docket: P-6215-US

APR 16 2007

**REMARKS**

Applicants have carefully studied the Office Action. This paper is intended to be fully responsive to all points of rejection raised by the Examiner and is believed to place the application in condition for allowance. Favorable reconsideration and allowance of the application are respectfully requested.

**Status of the Claims**

Claims 4, 6, 17, and 26 have been cancelled without prejudice to refilling in a continuation or divisional application. Claims 1, 5, 7, 8, 15, and 24 have been amended. Therefore, claims 1-3, 5, 7-16, and 18-25 are pending in the Application. No new matter has been added.

**Claim Rejections Under 35 USC §103(a)**

The Office Action rejected claims 1-26 under 35 USC §103(a) as being unpatentable over Dhablania, U.S. Patent Number 6,965,906, in view of the non-patent literature reference cited by Applicants as 43258.

Without conceding the appropriateness of the combination, Applicants respectfully submit that the rejection of claims 1-26 as being unpatentable over Dhablania in view of 43258 should be withdrawn.

Amended independent claims 1, 15 and 24 each recite, *inter alia*, "identify[ing] in a first sequence of instructions associated with a source architecture, said first sequence including one or more floating point control instructions, a rounding mode of one of said one or more floating point control instructions, and [] translat[ing] the first sequence of instructions into a second sequence of instructions associated with a target architecture according to said rounding mode". Neither Dhablania nor the 43258 reference discloses these limitations, and therefore claims 1, 15 and 24, as amended is patentable over Dhablania and the 43258 reference, alone or in combination.

Amended independent claim 5 recites, *inter alia*, that the translation of second sequence "is conditional on said second rounding mode" and that the second sequence

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includes "an instruction to compare a value of said first floating point number to a value of said initial floating point number." Neither Dhablania nor the 43258 reference discloses these features of claim 5, as amended, and claim 5 is patentable over Dhablania and/or the 43258 reference, alone or in combination.

Independent claims 9, 12, 18 and 21 each recite "convert[ing] an initial floating point number to a first floating point number" with round to zero forced mode. Independent claims 9 and 12 also require a comparison of the value of the resulting floating point number and the original floating point number ("if... value of said first floating point number is not equal to a value of said initial floating point number"). Neither Dhablania nor the 43258 reference discloses these features of claims 9, 12, 18 and 21. Therefore, neither Dhablania nor the 43258 reference, alone or in combination renders obvious any of claims 9, 12, 18 and 21.

As discussed, each of independent claims 1, 5, 9, 12, 15, 18, 21 and 24 are allowable over Dhablania and the 43258 reference. Claims 4, 6, 17, and 26 have been cancelled. Each of claims 2-3, 7-8, 10, 11, 13, 14, 16, 19, 20, and 22-23 depends from one of independent claims 1, 5, 9, 12, 15, 18, 21 and 24, and includes all the features of one of these claims as well as additional distinguishing features. Therefore, these dependent claims are likewise allowable.

In view of the above, Applicants respectfully request that the rejection of claims 1-26 under 35 USC §103(a) as being unpatentable over Dhablania and the 43258 reference be withdrawn.

The Office Action rejected claims 1-26 under 35 USC §103(a) as being unpatentable over Abdullah et al., U.S. Patent Number 6,502,115, in view of the non-patent literature reference cited by Applicants as 43258.

Without conceding the appropriateness of the combination, Applicants respectfully submit that the rejection of claims 1-26 as being unpatentable over Abdullah in view of the 43258 reference should be withdrawn.

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None of the various limitations in independent claims 1, 5, 9, 12, 15, 18, 21, and 24 discussed above with respect to Dhablania and the 43258 reference are disclosed by Abdullah. Therefore, neither Abdullah nor the 43258 reference alone or in combination renders claims 1, 5, 9, 12, 15, 18, 21, and 24 obvious. Claims 4, 6, 17, and 26 have been cancelled. Each of claims 2-3, 7-8, 10, 11, 13, 14, 16, 19, 20, and 22-23 depends from one of independent claims 1, 5, 9, 12, 15, 18, 21 and 24, and includes all the features of one of these claims as well as additional distinguishing features. Therefore, these dependent claims are likewise allowable.

In view of the above, Applicants respectfully request that the rejection of claims 1-26 under 35 USC §103(a) as being unpatentable over Abdullah in view of the 43258 reference should be withdrawn.

The Office Action rejected claims 1-26 under 35 USC §103(a) as being unpatentable over Oberman, U.S. Patent Number 6,131,104, in view of the non-patent literature reference cited by Applicants as 43258.

Without conceding the appropriateness of the combination, Applicants respectfully submit that the rejection of claims 1-26 as being unpatentable over Oberman in view of the 43258 reference should be withdrawn.

None of the above discussed limitations of independent claims 1, 5, 9, 12, 15, 18, 21, and 24 are disclosed by Oberman. Therefore, neither Oberman nor the 43258 reference alone or in combination renders claims 1, 5, 9, 12, 15, 18, 21, and 24 obvious. Claims 4, 6, 17, and 26 have been cancelled. Each of claims 2-3, 7-8, 10, 11, 13, 14, 16, 19, 20, and 22-23 depends from one of independent claims 1, 5, 9, 12, 15, 18, 21 and 24, and includes all the features of one of these claims as well as additional distinguishing features. Therefore, these dependent claims are likewise allowable.

In view of the above, Applicants respectfully request that the rejection of claims 1-26 under 35 USC §103(a) as being unpatentable over Oberman in view of the 43258 reference should be withdrawn.

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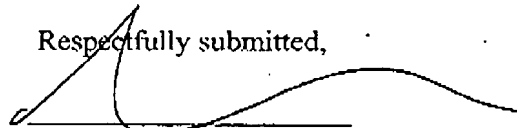
Conclusion

For at least the reasons discussed above, Applicants respectfully submit that the pending claims are allowable. Their favorable reconsideration and allowance are respectfully requested.

Should the Examiner have any question or comment as to the form, content or entry of this paper, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

No fees are believed to be due in connection with this paper. However if any such fees are due, please change any fees associated with this paper to deposit account No. 50-3355.

Respectfully submitted,



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